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--1. A flat panel display system for displaying data relating to aircraft system parameters from corresponding aircraft instruments to a flight crew in a cockpit of an aircraft, comprising:

a flat panel display for visually displaying the aircraft system parameters on simulated instruments found on the flat panel display and for displaying indicia that said data is being received related to the aircraft system parameters from corresponding aircraft instruments;

a first central processor for receiving said data from the aircraft instruments measuring said aircraft system parameters;

a first graphics generator operatively coupled to the first central processor for generating a first set of color data as a function of the data received by the first central processor and for outputting the first set of color data to a location on the flat panel display so that the flat panel display can form the simulated instruments and the indicia;

a second central processor for receiving said data from the aircraft instruments measuring said aircraft system parameters; and

a second graphics generator operatively coupled to the second central processor for generating a second set of color data as a function of the data received by the second central processor and for outputting the second set of color data to said location on the flat panel display in a different color than said first set of color data so that the combination at said location of the first set of color data from the first graphics generator and the second set of color data from the second graphics generator forms at said location on the flat panel display the simulated instruments and the indicia such that said indicia is of another color different from the colors of said first and second sets of color data,

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wherein when either of the first and second sets of color data is not output to said location on the flat panel display, the indicia on the flat panel display is in a color different from said another color.—

- --13. A circuit for controlling a flat panel display that displays on simulated aircraft instruments data related to aircraft system parameters gathered from aircraft instruments and indicia that show that the data is being received by the flat panel display, comprising:
- a first central processor for receiving/said data from the aircraft instruments measuring said aircraft system parameters;
- a first graphics generator operatively coupled to the first central processor for generating a first set of color data as a function of the data received by the first central processor and for outputting the first set of color data to a location on the flat panel display so that the flat panel display can form the simulated instruments and the indicia;
- a second central processor for receiving said data from the aircrast instruments measuring said aircrast system parameters;
- a second graphics generator operatively coupled to the second central processor for generating a second set of color data as a function of the data received by the second central processor and for outputting the second set of color data to said location on the flat panel display in a different color than said first set of color data so that the combination at said location of the first set of color data from the first graphics generator and the second set of color data from the second graphics generator forms at said location on the tlat panel display the simulated instruments and the indicia such that said indicia is of another color different from the colors of said first and second sets of color data,

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